

GATTACA

compute
overlap?

GCATGCG

match = 1

mismatch = -1

gap = -1

		G	C	A	T	G	C	G	
		0	-1	-2	-3	-4	-5	-6	-7
G	-1	1	0	-1	-2	-3	-4	-5	
A	-2	0	0	1	0	-1	-2	-3	
T	-3	-1	-1	0	2	1	0	-1	
T	-4	-2	-2	-1	1	1	0	-1	
A	-5	-3	-3	-1	0	0	0	-1	
C	-6	-4	-2	-2	-1	-1	1	0	
A	-7	-5	-3	-1	-2	-2	0	0	